



COTS Rugged Industrial Grade 9RU LCD Monitor



Who We Are

CP Technologies

- CP Technologies designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.
- Using COTS components, CP Technologies provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.
- CP Technologies is an ITAR Registered and SBA-certified small business that has been operating in Southern California for over a decade.

ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

YOUR CONFIGURATION. ONE PART NUMBER.

- It's our mission to make your life easier. Our Sales Engineers will help you select the right configuration for your project, making sure the details are analyzed and that the system meets your specifications.
- One part number means easier procurement and less paperwork for you.
- Dedicated Sales and Program Managers.
- Last time buy opportunities for end-of-life components.

FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

QUALITY COUNTS

- ISO 9001:2008 Certified
- 100% system inspection before shipment
- All integrated systems undergo a minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 2-year warranty on all integrated systems and LCD monitor products
- Assembled in the USA



Screen Size 24"

Assembled in the USA
ISO 9001:2008 Certified
ITAR Registered

The CPI1-241 Display can be used for many rugged industrial applications, particularly ones that require extensive screen space, e.g., HD video plus a dashboard with gauges. The display has InfraRed Touch Screen technology and supports Multi Touch Gesture technology (Windows 7). There is a bonded anti-reflective glass overlay, and optional micromesh EMI Filter on the monitor.

Specifications for our standard products can always be customized to fit your unique application requirements.

In-house Engineering Department

Rapid Prototyping



Applications

- Airborne Operations
- Land-based Operations
- Seaborne Operations
- Telemetry
- Diagnostics
- Simulation
- Communications
- Imaging
- Persistent Surveillance
- UAVs
- Automation
- Severe Environment Operations

Features

- Lightweight aluminum construction
- InfraRed Touch Screen with Multi Touch
- AR and optional EMI filter overlays

Harsh Environments

Designed to meet or exceed the below environmental specifications.

ALTITUDE

10,000 ft Operational, 30,000 ft Storage

HIGH TEMPERATURE

50°C Operational, 60°C Storage

LOW TEMPERATURE

0°C Operational, -20°C Storage

HUMIDITY

5-95%, Non-condensing

BLOWING SAND AND DUST

Dust: 6 hours at 1750 ft/min air velocity
Sand: 90 min at 40 miles/hr air velocity
(front surface, bonded glass only)

VIBRATION

2G RMS 5-500Hz

BENCH HANDLING SHOCK DROP TEST

20G @ 11ms Duration

For more information visit
combatproven.tech or call
858.571.4330

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CPI1-241-1216

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MILITARY | INDUSTRIAL | COMMERCIAL

CPI1-241 Panel Specifications

DIMENSIONS

23" X 15.47" X 3.2" (584.2mm X 392.9mm X 81.3mm)

ENCLOSURE DETAILS

Construction

High-strength 5052-H32 aircraft-grade aluminum

Powdercoating

Black per MIL-PRF-24712, Type IV, Class 3, Cardinal C214-BK110 polyester semi-gloss, fine texture

Plating

Chem-Film per MIL-C-5541F, Class 1A

Mounting Options

Rack mounting, panel mounting, VESA 100

OPTIONAL DISPLAY ENHANCEMENTS

Safety Glass

Using smudge-resistant AR coated soda lime float glass, bonded to the LCD panel with optical index matched adhesive

EMI Protection

Using a laminate of smudge-resistant AR coated soda lime float glass panel and a ITO coated glass panel (<12.5Ω/sq) grounded via a copper buss bar, bonded to the LCD panel with optical index matched adhesive

Touch Screen

- Infra Red touch screen technology
- Resolution of 4096 x 4096 points
- Supports Multi Touch gesture technology (Windows 7)
- Touch activation force: none
- Minimum touch object: 8mm dia
- Sealability: IP65 from the front
- Can be used in conjunction with AR glass overlay
- Use with finger, gloved hand, sylvus, or other pointer

Panel Details

SCREEN DIAGONAL

24"

WEIGHT (varies by configuration)

26 lbs

CONTRAST RATIO (typical)

1000:1

VIEWING ANGLE

89° (L/R/U/D)

RESPONSE TIME (typical)

14ms

NATIVE RESOLUTION

1920 x 1200

BRIGHTNESS

300 cd/m²

BACKLIGHT

LED

COLORS

16.7M

Power Details

POWER INPUT (native 12 VDC with options)

AC input 85 to 264VAC, 1275/704 28VDC

POWER DISSIPATION (typical)

50W

EXTERIOR POWER JACK (optional)

Yes

AUDIO

Yes, includes (2x) water-resistant speakers

CPX1-241



Controller Specifications

SUPPORTED VIDEO RESOLUTION

	Advanced
VGA (640 x 480)	•
WVGA (800 x 480)	•
SVGA (800 x 600)	•
XGA (1024 x 768)	•
SXGA (1280 x 1024)	•
WXGA (1366 x 768)	•
SXGA+ (1400 x 1050)	•
WXGA (1280 x 800, 1440 x 900)	•
UXGA (1600 x 1200)	•
WUXGA (1920 x 1200)	•

INPUTS

Standard	
ARGB (15 Pin VGA)	•
DVI-D Input	•
HDMI 1.3	•
Optional	
PAL / NTSC / SECAM	•
Composite Video Input	•
HD Component YPbPr	•
SD Component YCbCr	•
HD-SDI - SMPTE259M, 4.2.2	•
3G HD-SDI 424M 4.4.4	•

FEATURES

Image Up-Scaling	•
Image Down-Scaling	•
Infra-Red Remote Control	•
Picture In Picture	•
Memory Buffer	•
Sync On Green/Composite	•
DV RS-232 Serial Protocol	•
Ethernet Command Protocol	•
Picture By Picture	•
Text Overlay Function	•
Variable Aspect	•
Freeze & Zoom Function	•
Programmable Hot Keys	•

Power Alternative

CP Technologies' 2U-5U rackmount computer systems are designed with a removable back plate that allows a 12V power cord to run from the computer's power supply to a display or keyboard video monitor. This optional feature, the Exterior Power Jack, is available for this monitor.

By running the display with the computer systems' power supply, this Exterior Power Jack option can provide many benefits:

- Reduction in the number of required cables
- Elimination of additional equipment, i.e., a power brick
- Reduction in total system weight and cost

To enjoy these benefits, power up your new display with a CP Technologies' server.

CPI1-241 Display Photo

